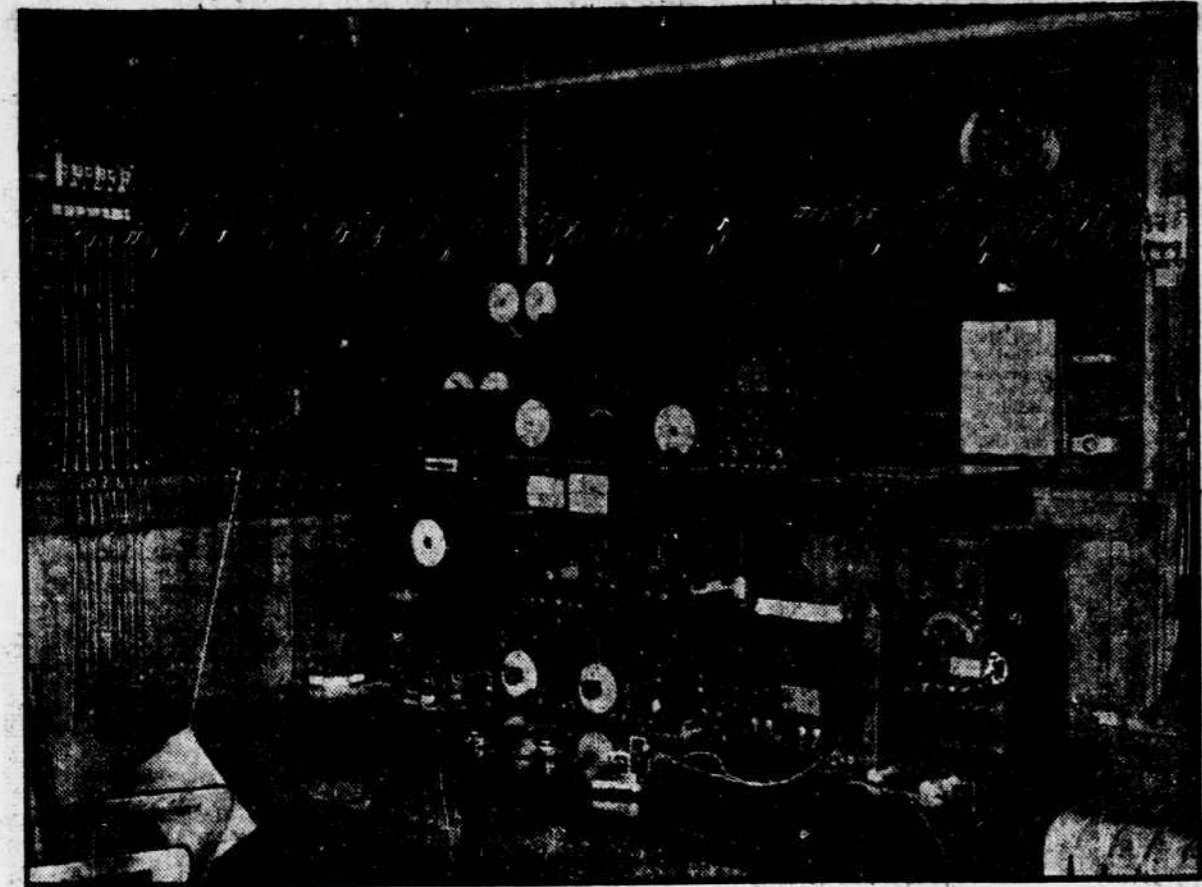


SOME OF THE RADIO RECEIVING APPARATUS USED IN THE ANACOSTIA RADIO LABORATORY.



MARINE BAND NOW PLAYS TO MILLIONS BY RADIO

"Stand By for NOF" Brings National Audience—Some Details of Laboratory at Anacostia.

BY COMMANDER STANFORD C. HOOPER, U. S. N., Head of the Radio Division, in the Bureau of Engineering, Navy Department.

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The Washington Marine Band, through radio, will soon play to an audience of millions.

True, this audience is divided into innumerable small groups and is invisible to the performers, but nevertheless it comprises in the whole a vast and critical audience of the most intelligent classes of our people, for whom it is safe to say that the radiophone is no longer considered a fad, but a medium for wholesome amusement, entertainment and study.

It is impossible of course to know the exact number of our people who listen in on NOF Wednesdays and Friday evenings, but judging by the gradually increasing area covered, as indicated by correspondence received from radio fans throughout the country, the number must now be well over the two hundred thousand mark.

As stated in a previous article the Marine Band concerts are broadcasted from NOF on 412 meters on Wednesday of each week, from 8:30 to 9:30 p.m., 75th meridian standard time.

The Navy Yard Band concerts are broadcasted at the same time on Friday. All are experimental broadcasts to help the Navy's radio engineers at the Anacostia laboratory to improve the radiophone, assisted by constructive criticism on the part of the radio fans throughout the United States as outlined in my article of June 25.

Cause for Wonder.
To sit in the quietude of one's home, whether it be the isolated farmhouse a thousand miles from Washington or the apartment of the professional man in a distant city, and to pick out of the air music from a massed band or a delightful violin solo played in Washington, naturally is a cause for wonder and admiration, and obviously there are few people who are not curious to know just how it is all managed, hence numerous requests have come in from several states asking for a description of the NOF station.

Doubtless most people form in their minds pictures of a formidable array of powerful electrical machinery and apparatus with showers of electric sparks or something of that nature. Every day we have requests for permission to visit one or other of the naval radio stations, especially the great high-power stations, and it is curious that it is expected that most interesting sights will be seen. Without doubt, the visits result largely in disappointments because really there is very little to see from the spectacular viewpoint.

True, there are immense steel towers extending up so high that the large insulators and antenna wires suspended therefrom are barely visible from the ground and in the operating building there are one or more rapidly revolving small electric generators with a few brightly lighted tubes about five or six times the size of an ordinary electric light bulb, and the associated apparatus, consisting of a few small instruments, condensers, indicating instruments, etc.

The functioning of the apparatus itself produces absolutely no sound except the slight hum of the revolving generators which deliver electric power to the towers.

Curiously are draped about to minimize as far as possible undesirable reverberations of sound. From the spectacular viewpoint there is little more of interest than the sight of an orchestra playing in any concert hall or a band in a public park.

Unheard Ether Waves.
The radio transmitter produces invisible unheard ether waves on which is impinged the equivalent of the sounds produced while the band is playing and music is radiated from the antenna into space.

There is no visible audience and there follows no applause at the finish of a solo or of the concert, no matter how delightful, and the musicians must look to their art for inspiration

alternating current supply at the laboratory. The master-oscillator is a fifty-watt coiled filament tube and the master-modulator is a similar tube. The master-oscillator is coupled to the grids of the power-amplifier tubes with a fairly loose coupling so that the amplifier tubes themselves will not oscillate. A five-watt speech amplifier tube precedes the modulator tube.

The set may be operated directly at the laboratory or from a distant land telephone station. When operated from a distant land telephone station, an additional five-watt tube amplifier is used between the incoming speech over the telephone line and the speech amplifier tube previously mentioned, which is a part of the set.

700 to 1,000 Volts.
This amplifier has capacity coupling with the regular speech amplifier. Power for the set is derived from a three-phase sixty-cycle motor direct coupled to a generator whose full load voltage runs from 700 to 1,000 volts. A half-way tap is available on the generator so that half of the voltage may be used for operating the master set.

Suitable filters are placed in the three lines from the generator to reduce commutator and slot ripples. The broadcast wave of 412 meters has been carefully chosen to avoid interference with other eastern broadcasting stations, and it has now been clearly demonstrated that signals from NOF can be readily tuned out with a properly designed receiver, even at points only a few miles from the laboratory.

DIVORCE DENIAL APPEAL OF EDITH GOULD IS LOST
New York Supreme Court Upholds Dismissal of Complaint by Justice Mullan.

By the Associated Press.
NEW YORK, July 15.—Edith Kelly Gould was blocked again today in her attempt to sue in this country for divorce from Frank J. Gould, who obtained a divorce from her in France. The appellate division of the supreme court upheld a dismissal of her complaint by Supreme Court Justice Mullan.

Already denied one appeal, Mrs. Gould had made this second move on the contention that the French court decision against her was not filed within the prescribed time limit.

The first furnace for the manufacture of iron in Ohio was established in the Mahoning valley in 1804.

KAHN-OPTICAL CO., 617 7th St. JEWELRY SPECIALS

24-In. Indestructible French Pearls, \$5	Gold Filled "Elgin" Watches, \$10	Fine Mesh Bags, Green Gold Finish, \$5
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DIAMOND BARGAINS

3/4-Carat Pure-white Solitaire Diamond Ring, Tiffany mounting	\$125
\$300 Blue-white Solitaire Diamond Ring, handsome platinum mounting	\$225
2 1/2-Carat Perfect Solitaire Diamond Ring, handsome mounting	\$350
\$125 Lady's Diamond Cluster Ring, platinum setting	\$75
\$750 Diamond and Sapphire Flexible Bracelet, all platinum	\$550
\$150 Blue-white Diamond Scarfpin	\$100
\$850 Diamond Bar Pin (blue-white gems)	\$650
\$1,750 Diamond Flexible Platinum Bracelet (blue-white gems)	\$1,250
Diamond Masonic Ring, 14-kt. gold mounting (very handsome)	\$25
1/2-Carat Man's Solitaire Diamond Ring	\$50

(See Us Before Buying Diamonds)

Kahn Optical Co.
617 7th St. N.W.
Ref. P and G Sts. Opp. U. S. Patent Office

BY RADIO TODAY

Complete Programs of Radio Broadcasting Stations.

NAA—Naval Radio Station, Radio, Va.
8:45 to 9 a.m.—Live stock receipts; live stock markets.
10 a.m.—Weather forecast for New England, New York, Pennsylvania, New Jersey, Maryland, the District of Columbia, North and South Carolina, Georgia, Florida, Alabama, Mississippi, Tennessee, Kentucky, West Virginia and Ohio on 2,850 meters.
10 p.m.—Time signal; weather report; ship orders; 2,850 meters.
10:30 p.m.—Naval press news on 2,850 meters.
Except where noted, sending is CW 5,950 meters.

WJZ—Westinghouse, Newark, N. J.
(300 Meters)—Eastern Daylight-Saving Time—Broadcast One Hour.
3:00 p.m.—Radio Chapel Service by Dr. Frank Mason North, former president of Federal Council of Churches of Christ in America, and corresponding Secretary of the Board of Foreign Missions of the Methodist Episcopal Church, North.
6:30 p.m.—Readings and records

KDKA—Westinghouse, East Pittsburgh, (300 Meters)—Eastern Standard Time—Broadcast One Hour.
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"Who Wants the Children?"
7:00 p.m.—Radio Chapel at Westinghouse Station KDKA, conducted by Rev. W. Benton Rhoades, minister, the First Presbyterian Church, Jacksonville, Pa.

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